## Claims

I claim

1. A protective bed unit comprising:

a frame including a headboard and at least one actuator base;

shielding material forming a canopy and leg cover to create a protective chamber and attached to said frame;

at least one door hingably affixed to said shielding material for allowing ingress and egress to the protective chamber; and

a ventilation system having ductwork passing through said shielding material for filtering air that passes into the protective chamber, said ventilation system including at least one filter, a fan and an electronically actuated valve.

- 2. The protective bed unit of claim 1 further comprising a rebreather located within the protective chamber for scrubbing carbon dioxide from air circulated through the rebreather.
- 3. The protective bed unit of claim 1 further comprising at least one cover actuator for opening the canopy, said actuator including a base plate attached to said actuator base and a lift plate attached to said shielding material.
- 4. The protective bed unit of claim 1 further comprising a door actuator attached between said shielding material and said door and for opening and closing said door.

- 5. The protective bed unit of claim 4 wherein said door actuator includes a quick release mechanism for allowing an operator to disengage the actuator from the door such that the door may be opened manually.
- 6. The protective bed unit of claim 1 further comprising a controller for controlling operation of the ventilation system and opening and closing of the shielding material and door.
- 7. The protective bed unit of claim 6 further comprising sensors connected to said controller for detecting different environmental conditions.
- 8. The protective bed unit of claim 1 further comprising seals located on at least and edge of said door and for sealing the unit when said door is closed.
- 9. A protective bed unit comprising:

a frame including a headboard and at least one actuator base;

shielding material forming a canopy and leg cover to create a protective chamber and attached to said frame;

at least one door hingably affixed to said shielding material for allowing ingress and egress to the protective chamber;

a ventilation system having duct work passing through said shielding material for filtering air that passes into the protective chamber, said ventilation system including at least one filter, a fan and an electronically actuated valve;

a rebreather located within the protective chamber for scrubbing carbon dioxide from air circulated through the rebreather;

at least one cover actuator for opening the canopy, said actuator including a base plate attached to said actuator base and a lift plate attached to said shielding material;

a door actuator attached between said shielding material and said door and for opening and closing said door, said door actuator includes a quick release mechanism for allowing an operator to disengage the actuator from the door such that the door may be opened manually;

a controller for controlling operation of the ventilation system and opening and closing of the shielding material and door;

at least one seal in contact with an edge of said door and for sealing the protective chamber; and

sensors connected to said controller for detecting different environmental conditions.

## 10. A protective bed unit comprising:

a protective chamber surrounded by shielding material;

a frame attached to said shielding material;

a door for providing access to said protective chamber;

a ventilation system for filtering air that passes into said protective chamber; and

a seal in contact with said door for sealing the protective chamber when the door is closed.

- 11. The protective bed unit of claim 10 further comprising a frame having a headboard and at least one actuator base.
- 12. The protective bed unit of claim 10 wherein said shielding material forms a canopy and leg cover.
- 13. The protective bed unit of claim 10 wherein said ventilation system includes at least one filter, a fan and an electronically actuated valve.
- 14. The protective bed unit of claim 10 further comprising a rebreather located with the protective chamber for scrubbing carbon dioxide from air circulated through the rebreather.
- 15. The protective bed unit of claim 10 further comprising at least one cover actuator for opening the canopy, said actuator including a base plate attached to said actuator base and a lift plate attached to said shielding material.
- 16. The protective bed unit of claim 10 further comprising a door actuator attached between said shielding material and said door and for opening and closing said door.

- 17. The protective bed unit of claim 16 wherein said door actuator includes a quick release mechanism for allowing an operator to disengage the actuator from the door such that the door may be opened manually.
- 18. The protective bed unit of claim 10 further comprising a controller for controlling operation of the ventilation system and opening and closing of the shielding material and door.
- 19. The protective bed unit of claim 18 further comprising sensors connected to said controller for detecting different environmental conditions.